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PATENT COOPERATION TREATY

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From the	\circ		_	Z Z DEF ZUUT		
INTÈRNATIONAL SEARCHING AU	THORITY V	0/554	351	WIPO POT		
То:		7 7	P C1	-		
Aros Patent AB			101	L		
P.O. Box 1544		WRITTEN OPINION OF THE				
751 45 UPPSALA		INTERNATIONAL SEARCHING AUTHORITY				
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)(), ()		(PCT Rule 43 <i>bis</i> .1)				
(1)						
1		Date of mailing				
		(day/month/year) 1 6 -09- 2004				
Applicant's or agent's file reference						
P435PC00		FOR FURTHER ACTION See paragraph 2 below				
						
International application No.	International filing date	e (day/month/year)	Priority date	(day/month/year)		
PCT/SE2004/000664	29.04.2004		30.04.2	:003		
International Patent Classification (IPC)	or both national classific	cation and IPC				
F03D 3/02, F03D 3/04						
Applicant						
Oldin, Karin et al						
1. This opinion contains indications rel	ating to the following ite	ems:				
Box No. I Basis of the op	inion					
Box No. II Priority						
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
Box No. IV Lack of unity of invention						
Box No. V Reasoned state	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial					
applicability; citations and explanations supporting such statement						
	Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application					
25 25 25 VIII Certain observa	mons on the internations	a appacation				
2. FURTHER ACTION						
	nary examination is mad	e this opinion will be	considered to b	ne a written oninion of the		
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an						
Authority other than this one to be IP	EA and the chosen IPEA	A has notified the Inter	national Burea	u under Rule 66.1 <i>bis</i> (b)		
that written opinions of this Internation						
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of						
mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.						
For further opinions, see Form PCT/I	SA/220.			·		
3. For further details, see notes to Form PCT/ISA/220.						
·						
Name and malling allowed years		A. (1) - 1 - 1 - 5				
Name and mailing address of the ISA/SE Authorized officer Patent- och registreringsverket						
Box 5055						
S-102 42 STOCKHOLM Facsimile No. +46 8 667 72 88		Telephone No. +46 8 782 25 00				

Form PCT/ISA/237 (cover sheet) (January 2004)

International application No. PCT/SE2004/000664

Bo	x No. I	Basis of this opinion
1.	in which i	rd to the language, this opinion has been established on the basis of the international application in the language t was filed, unless otherwise indicated under this item. s opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 1(b)).
2.	a. type of	rd to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the vention, this opinion has been established on the basis of: material a sequence listing table(s) related to the sequence listing
		of material in written format in computer readable form
		filing/furnishing contained in the international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search.
3.	filed	ddition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been to required statements that the information in the subsequent or additional copies is identical to in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additional	comments:

Claims

International application No. PCT/SE2004/000664

YES

applicability; citations and explanations supporting such statement							
1.	Statement						
	Novelty (N)	Claims	1-4, 6, 7, 9, 10	YES			
		Claims	5, 8	NO			

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial

Claims 1-10 No.

Industrial applicability (IA) Claims 1-10 YES
Claims NO

2. Citations and explanations:

Inventive step (IS)

Box No. V

Documents cited in the International Search Report:

D1: FR, A, 1086320 D2: US, A, 4070131 D3: FR, A1, 2588317 D4: DE, A1, 4122667 D5: EP, A2, 0097635

Each of documents D1-D4 disclose a wind power plant of cyclone type comprising a base, a tower above the base and being open at the top and provided with a side inlet for the wind to generate a cyclone in the tower. The tower is rotated during operation such that the wind inlet of the tower is maintained towards the wind. The wind power plant further comprises a substantially horizontal turbine having inlets through the base and outlet to the centre of the cyclone in the tower and being connected for driving a generator. The tower of the wind power plants described in D1-D3 are formed such that they have an elliptical shape in the horizontal plane.

Document D5 discloses a device for producing heat energy and simultaneously auto-regulating the speed of a windmill or wind-turbine, which comprises a water brake mounted on the rotating shaft of the windmill or the wind-turbine.

The method defined in claim 1 differs from the subject matter discloses in D1-D4 in that the tower is maintained in a leaning position to the vertical in a direction parallel to the wind. This characteristic must be

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: $Box\ V$

considered unclear, as it is not defined why the tower should be maintained in a leaning position. The purpose of the method defined by claim 1, must be interpreted as being to obtain a tower with an elliptical shape in the horizontal plane, as defined in claim 5 and 6. However, this is not defined in claim 1 nor does claim 1 define the shape of the tower in a vertical position. Additionally, it must be considered a mere choice for a person skilled in the art to lean a wind power plant known from any of D1-D4 in order to influence the horizontal shape of the tower without the exercise of inventive skill. Considering these circumstances, claim 1 can not be considered to differ in any essential way from the subject matter disclosed in D1-D4, and does therefore not involve an inventive step.

The wind power plant according to claims 5 and 8 does not differ from the wind power plants disclosed in D1-D3 and does therefore lack in novelty.

The subject matter of claims 2-4, 6, 7 and 9 must be considered obvious to a person skilled in the art, especially in light of documents D1-D4, and does therefore not involve an inventive step.

Arranging a rotor shaft in a wind power plant for driving a water brake for heating water, is per se known from e.g. D5. The person skilled in the art would therefore regard it as a normal option to include this feature in a wind power plant known from any of D1-D3 in order to obtain a wind power plant according to claim 10. Claim 10 does therefore not involve an inventive step.

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Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawing or on the question whether the claim are fully supported by the description, are made:

Claim 1 can not be considered to be clear and concise since it is not defined why the tower should be maintained in a leaning position nor is the shape of the tower in a vertical position defined. Claim 1 does therefore not fulfil PCT Article 6